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23373 7590 08/10/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			DUFFIELD, JEREMY S	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/629 717 BAE ET AL. Office Action Summary Examiner Art Unit JEREMY DUFFIELD 2427 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 April 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6.8-17.19-22 and 24-37 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-6,8-17,19-22 and 24-37 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

information Disclosure Statement(s) (PTO/S5/06)
 Paper No(s)/Mail Date ______.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

 Applicant's arguments filed 28 April 2009 have been fully considered but they are not persuasive.

In response to applicant's arguments regarding "the multimedia document...(SMIL) document", Page 16, lines 7-9, the Examiner respectfully disagrees. Piotrowski teaches transmitting SMIL multimedia documents automatically or by request. The SMIL document provides the user with access to supplemental information that is synchronized to the current television program. These are synchronized using extracted time codes from the television program and the supplemental information. The combination of Piotrowski, Blackketter, and Eng teaches transmitting/receiving a SMIL document along with its associated data and synchronizing the data using a global system clock. Therefore, the combination of the references teaches the aforementioned limitation.

Applicant's other arguments with respect to claims 1, 6, 16, 17, 22, 32, and 33 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

 Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is

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required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 2 includes the same claim language as a limitation in claim 1.

 Claim 35 is objected to because claims 18 and 23 were canceled thereby rendering the claim dependent upon canceled claims. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-3, 5, 6, 8, 10-17, 19, 21, 22, 24, 26-32, and 35-37 are rejected under 35
 U.S.C. 103(a) as being unpatentable over Piotrowski (US 2002/0188959) in view of
 Blackketter (US 6,415,438) and further in view of Eng (US 5, 963,557).

Regarding claim 1, Piotrowski teaches an apparatus for transmitting multimedia broadcasting (Fig. 1, el. 19), comprising:

a reference clock generator/transmitter, which generates and transmits a reference clock value of real-time multimedia broadcasting (Para. 25, 31-38); a multimedia document generator/transmitter, which generates and transmits a multimedia document scheduled at the generated reference clock

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value, i.e. web server generates and transmits scheduled SMIL documents (Para. 19, 29-38); and

a media data generator/transmitter, which generates and transmits media data used to render the generated multimedia document, i.e. web server generates and transmits supplemental multimedia information which includes audio and video (Para. 24, 29-38):

wherein the multimedia document is a synchronized multimedia integration language (SMIL) document (Para. 31-38).

Piotrowski does not clearly teach the reference clock value is a current time value of real-time multimedia broadcasting at the transmission and reception locations.

Blackketter teaches a reference clock generator/transmitter, which generates and transmits a reference clock value, which is a current time value of multimedia broadcasting and using the time to schedule multimedia, i.e. the current date and time can be periodically broadcasted to the receiver unit (Col. 5, lines 5-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Piotrowski to include generating and transmitting a reference clock value which is a current time value of real-time multimedia broadcasting, as taught by Blackketter, for the purpose of eliminating the need for a trigger script and delay loop by using wall-clock time with a trigger transmitted before its associated execution time (Blackketter-Col. 2. lines 39-50).

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Eng teaches a synchronizer located at a head-end that maintains a system clock and periodically broadcasts time stamps to the subscriber stations in order to maintain synchronization between the head-end and the stations (Col. 17, lines 22-46).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the reference clock generator/transmitter of Piotrowski in view of Blackketter to generate and transmit a reference clock value which is a current time value of real-time multimedia broadcasting at the transmission and reception locations, using the known method of generating and periodically transmitting a locally generated system clock value to subscriber stations in order to ensure synchronization, as taught by Eng, in combination with the system taught by Piotrowski in view of Blackketter, for the purpose of providing the user with a better overall viewing experience by having the receiver synchronized to the clock at the transmitter, thereby reducing lag time and errors.

Regarding claim 2, Piotrowski (Para. 31-38) in view of Blackketter in view of Eng teaches the multimedia document is a synchronized multimedia integration language (SMIL) document.

Regarding claim 3, Piotrowski (Para. 31-38) in view of Blackketter (Col. 5, lines 5-40) in view of Eng (Col. 17, lines 22-46) teaches the reference clock

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generator/transmitter, the multimedia document generator/transmitter, and the media data generator/transmitter transmit the reference clock value, the multimedia document, and the media data, respectively, in the form of a predetermined data stream, i.e. transmitting the current date and time, the SMIL document, and the linked media.

Regarding claim 5, Piotrowski in view of Blackketter in view of Eng teaches the reference clock generator/transmitter transmits the reference clock value, which increases by a predetermined value, whenever the reference clock value increases by the predetermined value, i.e. periodically broadcasting the current time to the receiver (Blackketter-Col. 5, lines 21-33; Eng-Col. 17, lines 22-46).

Regarding claim 6, Piotrowski teaches an apparatus for receiving multimedia broadcasting (Fig. 1, el. 11, 12, 14), comprising:

a reference clock receiver, which receives a reference clock value of realtime multimedia broadcasting, i.e. receiving a time code embedded in the media (Para. 25, 31-38);

a multimedia document receiver/storage, which receives and stores a first multimedia document, Note: the multimedia document must be at least temporarily stored while it is being analyzed (Para. 19, 25, 28, 31-38, 45):

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a media data receiver/storage, which receives and stores first media data, i.e. media data may be recorded (Para. 19, 25, 28, 31-38, 45); and

a multimedia document renderer, which when the first multimedia document is scheduled at the reference clock value and first media data is a rendering material used to render the first multimedia document, renders the first multimedia document using the first media data (Para. 30-38);

wherein the multimedia document is a synchronized multimedia integration language (SMIL) document (Para. 31-38).

Piotrowski does not clearly teach the reference clock value is a current time value of real-time multimedia broadcasting at the transmission and reception locations.

Blackketter teaches a reference clock generator/transmitter, which generates and transmits a reference clock value, which is a current time value of multimedia broadcasting and using the time to schedule multimedia, i.e. the current date and time can be periodically broadcasted to the receiver unit (Col. 5, lines 5-40); and a multimedia document receiver/storage, which receives and stores a multimedia document, i.e. prefetching web pages using triggers (Col. 6, line 60-Col. 7, line 7).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Piotrowski to include generating and transmitting a reference clock value which is a current time value of real-time multimedia broadcasting, as taught by Blackketter, for the purpose of eliminating

the need for a trigger script and delay loop by using wall-clock time with a trigger transmitted before its associated execution time (Blackketter-Col. 2, lines 39-50).

Eng teaches a synchronizer located at a head-end that maintains a system clock and periodically broadcasts time stamps to the subscriber stations in order to maintain synchronization between the head-end and the stations (Col. 17, lines 22-46).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the reference clock generator/transmitter of Piotrowski in view of Blackketter to generate and transmit a reference clock value which is a current time value of real-time multimedia broadcasting at the transmission and reception locations, using the known method of generating and periodically transmitting a locally generated system clock value to subscriber stations in order to ensure synchronization, as taught by Eng, in combination with the system taught by Piotrowski in view of Blackketter, for the purpose of providing the user with a better overall viewing experience by having the receiver synchronized to the clock at the transmitter, thereby reducing lag time and errors.

Regarding claim 8, Piotrowski (Para. 31-38) in view of Blackketter (Col. 5, lines 5-40) in view of Eng (Col. 17, lines 22-46) teaches the reference clock receiver, the multimedia document receiver/storage, and the media data receiver/storage receive the reference clock value, the first multimedia document,

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and the first media data, respectively, in the form of a predetermined data stream, i.e. transmitting the current date and time, the SMIL document, and the linked media.

Regarding claim 10, Piotrowski in view of Blackketter in view of Eng teaches the reference clock generator/transmitter transmits the reference clock value, which increases by a predetermined value, whenever the reference clock value increases by the predetermined value, i.e. periodically broadcasting the current time to the receiver (Blackketter-Col. 5, lines 21-33; Eng-Col. 17, lines 22-46).

Regarding claim 11, Piotrowski in view of Blackketter in view of Eng teaches a first multimedia document is not scheduled at a reference clock value, a multimedia document renderer stands by until receipt of a predetermined reference clock value at which the first multimedia document is scheduled, i.e. the SMIL document media components are scheduled and synchronized using broadcasted trigger time codes (Piotrowski-Para. 31-38; Blackketter-Col. 5, lines 5-40; Eng-Col. 17, lines 22-46).

Regarding claim 12, Piotrowski in view of Blackketter in view of Eng teaches transmitting a trigger, which contains a future presentation time attribute and a URL, prefetching the information resource contained at the URL, and

executing the trigger at the future time (Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25). Therefore, Piotrowski in view of Blackketter teaches when the first multimedia document is scheduled at the reference clock value but the first media data is not a rendering material used to render the first multimedia document, the multimedia document renderer holds the first media data in standby and then uses the first media data when rendering a second multimedia document, whose rendering material is the first media data and which is scheduled at a predetermined reference clock value, i.e. rendering the multimedia document and its associated media data at the scheduled time (Piotrowski-Para. 28; Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25; Eng-Col. 17, lines 22-46).

Regarding claim 13, Piotrowski in view of Blackketter in view of Eng teaches transmitting a trigger, which contains a future presentation time attribute and a URL, prefetching the information resource contained at the URL, and executing the trigger at the future time (Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25). Therefore, Piotrowski in view of Blackketter teaches when a first multimedia document under rendering is not scheduled at a predetermined increasing reference clock value, i.e. the trigger has expired or the multimedia document is finished (Blackketter-Col. 8, lines 15-49; Col. 10, lines 44-50), the multimedia document renderer stops rendering the first multimedia document and then renders a second multimedia document scheduled at the

predetermined increasing reference clock value when the second multimedia document has been stored, i.e. the trigger for the new multimedia document is executed and the document is rendered (Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25; Eng-Col. 17, lines 22-46).

Regarding claim 14, Piotrowski in view of Blackketter in view of Eng teaches transmitting a trigger, which contains a future presentation time attribute and a URL, prefetching the information resource contained at the URL, and executing the trigger at the future time (Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25). Therefore, Piotrowski in view of Blackketter teaches when a first multimedia document under rendering is not scheduled at a predetermined increasing reference clock value, i.e. the trigger has expired or the multimedia document is finished (Blackketter-Col. 8, lines 15-49; Col. 10, lines 44-50), the multimedia document renderer stops rendering the first multimedia document and then receives and stores a second multimedia document scheduled at the predetermined increasing reference clock value when the second multimedia document has not been stored (Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25; Eng-Col. 17, lines 22-46).

Regarding claim 15, Piotrowski in view of Blackketter in view of Eng teaches transmitting a trigger, which contains a future presentation time attribute and a URL, prefetching the information resource contained at the URL, and

executing the trigger at the future time (Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25). Therefore, Piotrowski in view of Blackketter in view of Eng teaches when a first multimedia document under rendering is not scheduled at a predetermined increasing reference clock value, i.e. the trigger has expired or the multimedia document is finished (Blackketter-Col. 8, lines 15-49; Col. 10, lines 44-50), the multimedia document renderer stops rendering the first multimedia document and then receives and stores second media data used to render a second multimedia document scheduled at the predetermined increasing reference clock value when the second multimedia document has been stored, but the second media data has not been stored, i.e. the second multimedia document has been prefetched (Piotrowski-Para. 28; Blackketter-Col. 5, lines 5-40; Col. 6, line 60-Col. 7, line 25; Eng-Col. 17, lines 22-46).

Regarding claim 16, claim is analyzed with respect to the combination of claims 1 and 6.

Regarding claim 17, claim is analyzed with respect to claim 1. Piotrowski in view of Blackketter in view of Eng further teaches the generating of the reference clock value, the multimedia document, and the media data, respectively, are carried out by at least one processor (Piotrowski-Fig. 1, el. 50; Eng-Col. 17, lines 8-14).

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Regarding claim 19, claim is analyzed with respect to claim 3.

Regarding claim 21, claim is analyzed with respect to claim 5.

Regarding claim 22, claim is analyzed with respect to claim 6. Piotrowski in view of Blackketter in view of Eng further teaches the generating of the reference clock value, the multimedia document, and the media data, respectively, are carried out by at least one processor (Piotrowski-Fig. 1, el. 50; Eng-Col. 17, lines 8-14).

Regarding claim 24, claim is analyzed with respect to claim 8.

Regarding claim 26, claim is analyzed with respect to claim 10.

Regarding claim 27, claim is analyzed with respect to claim 11.

Regarding claim 28, claim is analyzed with respect to claim 12.

Regarding claim 29, claim is analyzed with respect to claim 13.

Regarding claim 30, claim is analyzed with respect to claim 14.

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Regarding claim 31, claim is analyzed with respect to claim 15.

Regarding claim 32, claim is analyzed with respect to the combination of claims 1 and 6. Piotrowski in view of Blackketter in view of Eng further teaches the generating of the reference clock value, the multimedia document, and the media data, respectively, are carried out by at least one processor (Piotrowski-Fig. 1, el. 50; Eng-Col. 17, lines 8-14).

Regarding claim 35, Piotrowski (Para. 42-45) in view of Blackketter in view of Eng teaches a computer-readable recording medium in which a program for executing the method of claim 17 in a computer is recorded.

Regarding claim 36, Piotrowski (Para. 32-37) in view of Blackketter in view of Eng teaches the media data generator/transmitter generates and transmits media data separately from the generated multimedia document, i.e. the multimedia document contains the URLs that link to the media data.

Regarding claim 37, Piotrowski (Para. 28, 32-37) in view of Blackketter in view of Eng teaches the media data receiver/storage receives and stores first media data separately from the multimedia document, i.e. the multimedia document contains the URLs that link to the media data.

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 Claims 4, 9, 20, 25, 33, 34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Piotrowski in view of Blackketter in view of Eng and further in view of the Real-Time Streaming Protocol Specification (RFC 2326).

Regarding claim 4, Piotrowski in view of Blackketter in view of Eng teaches all elements of claims 1 and 3.

Piotrowski in view of Blackketter in view of Eng teaches communication with a network using well-known conventional communication protocols (Piotrowski-Para. 22).

Piotrowski in view of Blackketter in view of Eng does not clearly teach the predetermined data stream is composed of type information, time slot information, payload length information, and payload information, the type information indicates whether the predetermined data stream is for the reference clock value, the multimedia document, or the media data, the time slot information indicates a broadcasting time zone in which the reference clock value, the multimedia document, or the media data is scheduled, the payload length information indicates the length of the payload information, and the payload information is substantial data information of the reference clock value, the multimedia document, or the media data.

The RTSP Specification teaches an RTSP response can be composed of type information, (Page 7; Page 30, Sec. 10.2; Page 49, Sec. 12.16, 12.18, 12.19; Page 52, Sec. 12.29; Page 53, Sec. 12.33; Page 79, Sec. C.1.1; Page 80, Sec. C.1.2, C.1.3), time slot information, i.e. range of presentation or time of

availability (Page 52, Sec. 12.29; Page 81, Sec. C.1.5, C.1.6), payload length information, i.e. content length (Page 30, Sec. 10.2; Page 49, Sec. 12.14), and payload information, i.e. entity (Page 30, Sec. 10.2; Page 26, Sec. 8).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Piotrowski in view of Blackketter in view of Eng to include teach the predetermined data stream is composed of type information, time slot information, payload length information, and payload information, the type information indicates whether the predetermined data stream is for the reference clock value, the multimedia document, or the media data, the time slot information indicates a broadcasting time zone in which the reference clock value, the multimedia document, or the media data is scheduled, the payload length information indicates the length of the payload information, and the payload information is substantial data information of the reference clock value, the multimedia document, or the media data, as taught by the RTSP Specification, for the purpose of using a well-known and established communication protocol.

Regarding claim 9, claim is analyzed with respect to claim 4.

Regarding claim 20, claim is analyzed with respect to claim 4.

Regarding claim 25, claim is analyzed with respect to claim 4.

Regarding claim 33, claim is analyzed with respect to the combination of claims 1 and 4.

Regarding claim 34, Piotrowski in view of Blackketter in view of Eng in view of the Real-Time Streaming Protocol Specification teaches the type information, the time slot information, the payload length information, and the payload information are sequentially arranged. It would have been obvious to one of ordinary skill in the art at the time the invention was made because sequentially arranging the type information, the time slot information, the payload length information, and the payload information is a predictable variation of the RTSP standard. This enables the receiver to quickly process the RTSP header fields.

Regarding claim 35, Piotrowski (Para. 42-45) in view of Blackketter in view of Eng in view of RFC 2326 teaches a computer-readable recording medium in which a program for executing the method of claims 20 and 25 in a computer is recorded.

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Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY DUFFIELD whose telephone number is (571)270-1643. The examiner can normally be reached on Mon.-Thurs. 8:00 A.M.-5:30 P.M. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Beliveau can be reached on (571) 272-7343. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

7 August 2009 JSD

/Scott Beliveau/ Supervisory Patent Examiner, Art Unit 2427